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CLAIMS

What is claimed is:

A system for interacting with end user terminals over a
 first communications network, the system comprising:

a plurality of servers coupled to receive communication from the end user terminals over the first communications network;

an interface disposed between the plurality of servers and end user terminals, the interface being operative to receive requests from the end user terminals and to distribute the requests to the plurality of servers;

a second communication network coupled to provide communication between the servers in the plurality of servers;

a first computer program segment resident in at least one of the plurality of servers wherein said program:

receives a request from an end user terminal, process the request, and

broadcasts data regarding the processed request to the other servers,

- a second computer program segment resident in at least one of the plurality of servers wherein the said program stores data broadcast from at least one other server.
- 2. The system of claim 1, wherein the first program segment broadcasts data over the second communication network to the second program segment.
 - 3. The system of claim 2, wherein the second communications network comprises an Ethernet network.
 - 4. The system of claim 3, wherein the second communications network comprises a gigabit Ethernet network.

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The system of claim 1, wherein the end user terminals comprise ITV receivers, and wherein the requests from the end user terminals are requests from the ITV receivers to retrieve and transmit interactive content to the ITV receivers.

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The system of claim 1, further including a database for 6. permanent storage of the data relating to processed requests.

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The system of claim 6, wherein the database is coupled 7. to the second communications network.

The system of claim 1, wherein the interface disposed

between the plurality of servers and end user terminals further includes means for routing incoming requests to the respective servers.

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The system of claim 8, wherein the means for routing 9. comprises the Domain Name Server function of the Internet.

The system of claim 8, wherein the means for routing comprises a load balancing system (LBS).

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> The system of claim 2, further including a process coupled to the second communications network, wherein the process is programmed to monitor the network for instances of specific transactions.

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12. The system of claim 11, wherein one of the process comprises a threshold monitoring process coupled to a content encoder, wherein the threshold monitoring process is programmed to process data transmitted over the second communications network, determine that a threshold has been exceeded, and to transmit a corresponding notification to the content encoder.

encoder to transmit information there between. The system of claim 11, wherein the process comprises a

transaction processing process.

A method of interacting with user terminals over a 10 communications network, comprising:

line connected to the threshold monitoring process and the content

The system of claim 12, further including a frame relay

receiving a request from a user terminal;

allocating the request to one of a plurality of servers; processing the request at one of the plurality of servers;

transmitting data relating to the request to the other servers in the plurality of servers; and

storing the data relating to the request at each other server.

- The method of claim 15, wherein transmitting data is performed over a private network.
- 17. The method of claim 15, wherein transmitting data is performed in a LBS.
- The method of claim 17 wherein the LBS, which transmits data, distributes requests to the plurality of servers.
- The method of claim 15, wherein allocating the request uses a round robin allocation to distribute the load over the 30 plurality of servers.

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- 20. The method of claim 15, wherein forwarding the request further comprises performing a load analysis to distribute the incoming requests over the plurality of servers.
- 5 21. The method of claim 15, wherein processing the request comprises retrieving and transmitting interactive content to an interactive television receiver.
- 22. The method of claim 15, further comprising monitoring to the data relating to the request at each server.
 - 23. The method of claim 22, further comprising:

 detecting a threshold from the monitored data;

 providing an indication of detection of the threshold to
 a content encoder;

encoding the indication of detection of the threshold; and

providing the encoded indication of reaching the threshold to at least one ITV receiver.

- 24. The method of claim 23 wherein detecting a data threshold comprises detecting a certain number of users.
- 25. The method of claim 24 wherein encoding the indication of detecting the threshold comprises placing an indication of detecting the threshold within a video signal to be provided to an ITV receiver.
- 26. A system for interacting with end user terminals over a communications network, the system comprising:

plural servers adapted for communication with the respective terminals over the communications network, wherein the servers are connected for communication with the other respective servers;

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an interface connected to the respective servers and operative to receive requests from the users and to route the requests to the respective servers; and

wherein each of the servers is programmed to receive a request from one of the servers, process the request, and broadcast data regarding the processed request to the other servers, and wherein the servers are each programmed to store the broadcast data in respective local memories.

- 10 27. The system of claim 26, further including a back-end network connected to each of the servers, and wherein the servers are programmed to broadcast the data over the back-end network.
 - 28. The system of claim 27, wherein the terminals comprise ITV receivers, and wherein the servers are responsive to requests from the ITV receivers to retrieve and transmit interactive content to the terminals.
 - 29. The system of claim 26, further including a database for storage of the data relating to processed requests.
 - 30. The system of claim 26, further including a plurality of processes connected to the back-end network, wherein each process is programmed to monitor the network for certain data and to process the appropriate data.
 - 31. The system of claim 31, wherein one of the process comprises a threshold monitoring process connected to a content encoder, wherein the threshold monitoring process is programmed to process data transmitted over the back-end network, determine that a threshold has been exceeded, and to transmit corresponding data to the content encoder.

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32. A method of interacting with end user terminals over a communications network, comprising:

receiving a request from a user terminal;

forwarding the request to one of a plurality of servers;

processing the request at the one server;

transmitting data relating to the request to the other servers; and

storing the data at each server.

- 10 33. The method of claim 32, wherein transmitting data is performed over a private network.
 - 34. The method of claim 32, wherein forwarding the request is done in a random manner to distribute the load over the plurality of servers.
 - 35. The method of claim 32, wherein processing the request comprises retrieving and transmitting interactive content to an interactive television receiver.